

PRODUCT SPECIFICATION 2.54 Female Header Connectors Series	SPEC.No.:Female Header-003	
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Rev	Date	Description	Edited by	Approvals
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1. Scope:

This specification covers the requirements for product performance, test methods and quality assurance provisions of **2.54 Female Header Connectors Series**.

2. Shape,Construction and Dimensions:

See attached drawing

3. Materials

See attached drawing

4. Accommodated cable and P.C.Board

4.1 Thickness:0.8(.031") ~1.6mm(.063")

4.2 P.C.Board Layout:See attached drawings

5. Rating:

A	Current	3 A
B	Temperature	-40°C ~+105°C

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6. Product Performance and Requirements:

Electrical Performance		
Test Description	Test Procedures & Condition	Requirements
Temperature Rise vs Current Rating (额定电流&温升测试)	EIA 364-70 Measure temperature rise vs current at 0.5A minimum when measured at an ambient temperature of 23±3°C.	The ΔT shall not exceed +30°C at any point in the connector under test.
Contact Resistance	EIA 364-23 Subject mated contacts assembled in housing to closed circuit current of 100 mA maximum at open circuit at 20 mV maximum.	20 mΩ maximum
Insulation Resistance	EIA 364-21 Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector assemblies. Test Voltage: 600V DC.	1000MΩ minimum
Dielectric Withstanding Voltage	EIA 364-20 Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector assemblies. Test Potential: 600V AC at sea level Test Duration: 60 seconds	1. No flashover, No spark over, No excess leakage, No breakdown. 2. Current leakage: < 0.5mA

Mechanical Performance		
Test Description	Test Procedures & Condition	Requirements
Flammability	UL 94V-0 This procedure is to ensure thermoplastic resin compliance to UL flammability standards.	The manufacturer will require its thermoplastic resin vendor to supply a detailed C of C with each resin shipment. The C of C shall clearly show the resin's UL listing number, lot

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		number, date code, et cetera.
Contact retaining in insulator	Retention speed 25±3mm per minute form housing	More than 800 gram
Single contact insertion fore	Measure force to withdrawal using 0.46mm square pin at speed 25±3mm per minute	800 gram max
Single contact withdrawal force	Measure force to withdrawal using 0.46mm square pin at speed 25±3mm per minute	30 gram max
Vibration	1.5 mm 10 - 55 - 10HZ/minte each 2 hours for X,Y and Z directions	pppearance: No damage Discontinuity:I micro secpmd ,max
Solder ability (沾锡性)	EIA 364-52 Subject unmated connectors should be tested according to the condition listed below: Steam Aging Temperature: 90 ~ 96°C Steam Aging Duration: 8 hours±5 min. Soldering Temperature: 260±5°C Soldering Time: 4 ~ 5 seconds Flux: Inactivated	Continuous solder coating with a minimum 95% coverage.
Resistance to Soldering Heat	EIA 364-56 Condition B Subject unmated connectors should be tested according to the condition listed below: Insulator:PA46/PA6T/LCP DIP Type : Soldering time:5±0.5 seconds Soldering pot:260±5 °C SMT Type : Soldering time:5±0.5 seconds Soldering pot:250~260°C Insulator:PBT Soldering time:5±0.5 seconds Soldering pot:230°C	No damage.

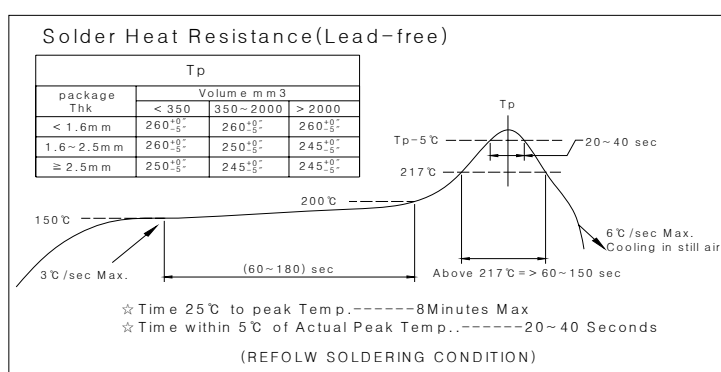
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Environmental Performance		
Test Description	Test Procedures & Condition	Requirements
Temperature Life	<p>A 364-17 Test Condition 3 Method A</p> <p>The object of this test is to detail a standard test method to assess the ability of a connector to withstand elevated temperatures with or without electrical loading.</p> <p>Subject mated connectors should be tested according to the condition listed below :</p> <p>Temperature : 105±2°C Duration : 96 hours</p>	<p>1. No evidence of damage.</p> <p>2. The electrical performances should meet the spec. specified.</p>
Salt Spray	<p>EIA 364-26</p> <p>Subject mated and unmated connectors should be tested according to the condition listed below:</p> <p>Temperature: 35±3°C Humidity: 95 ~ 98% (R.H.) PH Value: 6.5 ~ 7.2 Duration: 48 hours</p>	<p>1. No evidence of damage.</p> <p>2. The electrical performances should meet the spec. Specified.</p>

Soldering Condition:

Reflow soldering

Lead-Free-IPC / IPC-STD-020C



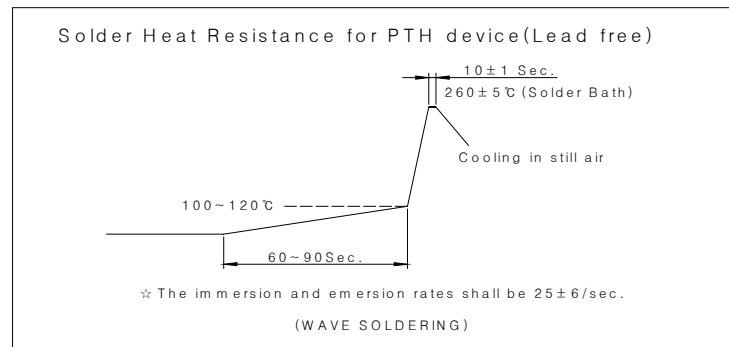
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Wave Soldering**Lead-Free-JESD22-B106C-Lead-free****Leyconn**